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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,023	07/18/2006	Esa Suokas	12808/29	9012
26646 KENYON & K	7590 04/14/200 ENYON LLP	EXAMINER		
ONE BROADV	VAY	HORNBERGER, JENNIFER LEA		
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			3734	
			MAIL DATE	DELIVERY MODE
			04/14/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/565,023	SUOKAS ET AL.				
Office Action Summary	Examiner	Art Unit				
	JENNIFER L. HORNBERGER	3734				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>28 Ja</u>	nuarv 2009.					
	action is non-final.					
3) Since this application is in condition for allowar						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-26 and 28-31</u> is/are pending in the application.						
4a) Of the above claim(s) <u>28-30</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-26 and 28</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	o, and common copies net reconc	.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P					
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/28/2009 has been entered.
- 2. Claims 1-26 and 28-31 are pending. Claims 28-30 are currently withdrawn.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-26 and 31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 1 recites the limitation "the melt-processing temperature" in line 8. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-4 and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Törmälä et al. (US 6,406,498).

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Regarding claim 1, Törmälä et al. disclose a multifunctional synthetic bioabsorbable device, comprising: a synthetic bioabsorbable oriented polymeric matrix (col. 3, ln. 5-9); solid particles of a pharmacological agent (col. 3, ln. 10-11), cavities induced around the solid particles of the pharmacological agent dispersed in said synthetic bioabsorbable oriented polymeric matrix, wherein the pharmacological agent is capable of retaining its solid particulate form in the melt processing temperature of the matrix (col. 7, ln. 44-50).

Regarding claim 2, Törmälä et al. disclose the claimed invention spindle-shaped or oval-shaped cavities (Fig. 8B). Since said cavities cause reduced Young's modulus and increased elasticity, it would be reasonable to expect that the device of Törmälä et al. having cavities would have the same properties.

Regarding claim 3, Törmälä et al. disclose the device is a suture, fiber, thread, cord, or wire (col. 6, ln. 5-6).

Regarding claim 4, Törmälä et al. disclose the device is a mesh (col. 6, ln. 5-6).

Regarding claim 31, Törmälä et al. disclose the synthetic bioabsorbable oriented polymeric matrix is of poly-α-hydroxy acid polymer (col. 4, ln. 19).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fischer et al (EP 1157708) in view of Törmälä et al. (US 6,406,498).

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Regarding claim 1, Fischer et al. disclose a multifunctional synthetic bioabsorbable device comprising: a synthetic bioabsorbable polymeric matrix, particles of a pharmacological agent (paragraph 7). Fischer et al. fail to disclose an oriented polymeric matrix having cavities induced around the particles of the pharmacological agent dispersed in said synthetic bioabsorbable polymeric matrix. However, Törmälä et al. disclose a synthetic bioabsorbable oriented polymeric matrix (col. 4, ln. 16-17) having cavities encapsulating solid bioactive glass or ceramic particles (col. 3, In. 5-20, col. 7, In. 44-50). The bioactive glass/ceramic is capable of retaining its solid particulate form in the melt processing temperature of the matrix (col. 7, In. 44-50). Törmälä et al. discloses that applying orientating and or self-reinforcing techniques to bioabsorbable polymeric composites that include bioactive absorbable cermaic filler creates strong, tough, bioactive polymer composites which are useful in meshes, fibers, and threads (col. 5, In. 53 - col. 6, In. 10). Therefore, it would have been obvious to one of ordinary skill in the art to apply orienting and self-reinforcing techniques to the polymer composite of Fischer et al. and to provide the pharmacological agent in the form of bioactive glass or ceramics in order to provide increased strength as suggested by Törmälä et al. It follows that applying the techniques of Törmälä et al. would induce cavities around the pharmacological agent contained in bioactive glass/ceramic in the device of Fischer et al.

Regarding claim 2, Fischer et al. in view of Törmälä et al. disclose the claimed invention spindle-shaped or oval-shaped cavities (Fig. 8B). Further, since said cavities cause reduced Young's modulus and increased elasticity, it would be reasonable to expect that the device of Fisher et al. in view of Törmälä et al. also having cavities would have the same properties.

Regarding claim 3, Fischer et al. disclose the device is a suture, fiber, thread, cord, or wire (paragraph 7).

Regarding claims 4 and 5, Fischer et al. disclose the device is a mesh (paragraph 18) comprising fibers of differing bioabsorbable properties (paragraph 10).

Regarding claim 6, Fischer et al. disclose the mesh comprises bioabsorbable fibers and non-bioabsorbable fibers, or fibers of differing bioabsorption rates (paragraph 10).

Regarding claims 7-9, Fischer et al. disclose the pharmacological agent is an antibiotic in that it inhibits bacterial growth (paragraph 7).

Regarding claims 10-12, Fischer et al. disclose the pharmacological agent comprises 0.01 to 50 wt-% of the weight of the said multifunctional device (paragraph 16).

Regarding claims 13-15, Fischer et al. discloses the claimed invention except for said pharmacological agent comprises 1-10 wt-% of the weight of the said multifunctional device. It would have been obvious to one having ordinary skill in the art at the time the invention was made to ascertain the effective minimum and maximum amounts of the pharmacological agent, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Regarding claims 16-18, Fischer et al. discloses the said multifunctional device is monofilamentous in its structure (paragraph 7, ln 41).

Regarding claims 19-21, Fischer et al. discloses the said multifunctional device is multifilamentous in its structure (paragraph 10).

Regarding claims 22-24, Fischer et al. disclose the said multifunctional device has a drug releasing function effective to inhibit bacterial attachment and biofilm formation (paragraph 7, line 43).

Regarding claim 25, Fischer et al. discloses it is made by melt or solution processing technique and subsequent processing method (paragraph 15).

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Regarding claim 26, Fischer et al. discloses the subsequent processing method is fiber spinning (paragraph 15).

Regarding claim 31, Fischer et al. fails to disclose poly-α-hydroxy acid polymer. Törmälä et al. disclose poly-α-hydroxy acid polymers are suitable for forming the bioabsorbable polymeric matrix. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use poly-α-hydroxy acid polymers to form a bioabsorbable polymeric matrix, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.

Response to Arguments

9. Applicant's arguments with respect to claim 1-26 and 31 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JENNIFER L. HORNBERGER whose telephone number is (571)270-3642. The examiner can normally be reached on Monday through Friday from 8am-5pm, Eastern time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Todd Manahan can be reached on (571)272-4713. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

jlh 03/30/2009

/Todd E Manahan/ Supervisory Patent Examiner, Art Unit 3734